

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 41] नई दिल्ली, शनिवार, अक्टूबर 14, 1989, (अश्विन 22, 1911)

No. 41] NEW DELHI, SATURDAY, OCTOBER 14, 1989 (ASVINA 22, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अच्छा संकलन के रूप में रखा जा सके।  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

(PART III—SECTION 2)

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधि सूचनाएँ और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 14th October 1989

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Telegraphic address "PATENTOFIC".

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Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees:—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय  
एकस्व तथा अभिकल्प  
कलकत्ता, विनांक 14 अक्टूबर, 1989

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, विल्ली एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्रावैशक क्षेत्राधिकार जात के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शास्त्र, टोडी इस्टेंट  
तीसरा तल, लोअर परले (पैश्वरम),  
बम्बई-400013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा  
दिव एवं दावरा और नगर हवेली।

तार पता—“पेटेंटोफिस”।

पेटेंट कार्यालय शास्त्र,  
एक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती भार्ग, करोलबाग,  
नहर दिल्ली-110005।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा  
कश्मीर, पंजाब, राजस्थान तथा उत्तर  
प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र  
संडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिक”

पेटेंट कार्यालय शास्त्र,  
61, वालाजाह रोड,  
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डुचेरी, लक्ष्मीपुर  
सिनिकाय तथा एमिनिविव लक्ष्मीपुर।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),  
निषाम पैलेस, विवतीय बहुतलीय कार्यालय  
भवन, 5, 6 तथा 7 बां तल,  
234/4, आषार्य जगदीश बोस रोड,  
कलकत्ता-7000 20.

भारत का अवशेष क्षेत्र

तार पता—“पेटेंटेस”।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में  
अपेक्षित सभी आवेदन पत्र, सूचिएँ, विवरण या अन्य प्रलेख  
पेटेंट कार्यालय के केवल उपयक्ता कार्यालय में ही प्राप्त किए  
जायेंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जायेगी  
अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य भनावेश  
वथवा डाक आवेदन या जहाँ उपयुक्त कार्यालय अवस्थित है; उस  
स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट  
अथवा चेक बूथारा की जा सकती है।

#### CORRIGENDUM

In the Gazette of India, Part III Section 2 dated 1st April 1989 page No. 331 Column 1 Under heading "Cessation of Patents".

For No.	Read No.
156759	147759
157760	147760
157763	147763.

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHAYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent brackets are the dates  
claimed Under Section 135, of the Patents Act, 1970.

The 6th September, 1989

734/Cal/89. Hitachi Construction Machinery Co. Ltd.  
Engine remote control system.

735/Cal/89. Eaton Corporation. Providing a programmer  
timer with dual rate drive.

736/Cal/89. Libbey-Owens-Ford Co. Glass coating method  
and resulting article.

[Division of Application No. 743/Cal/1986 &  
dt. 14th October, 1986.]

The 7th September, 1989

737/Cal/89. (I) Moskovsky Tekhnologicheaky Institut-Ussr,  
(II) Vsesojuzny Nauchno-Issledovatelsky Institut  
Elektro-bytovyykh Mashin Kievskogo Nauchno-  
Proizvodstvennogo Obledinenia "Vesta" Ussr.  
Compression refrigerating unit.

738/Cal/89. Hollandse Signallapparaten B.V. Surveillance  
sensor.

739/Cal/89. E.I. Du Pont De Nemours & Company. Improvements relating to texturing yarns.

[Division of Application No. 722/Cal/87 & dt.  
9th September, 1987.]

740/Cal/89. Kamal Kumar Sen Gupta and Radha Rani  
Sen Gupta. A process for manufacturing containers  
from materials like jute fabrics.

The 8th September, 1989

741/Cal/89. (1) Boris Afanasiievich Tazenkov, (2) Evgeny  
Grigorievich Kachanov, (3) Alexandre Nikola-  
evich Evtropov, (4) Elena Sergeevna  
Artovolevskaya. Electrophotographic image  
medium.

742/Cal/89. Pennwalt Corporation. Process for preparing sulfur solvent compositions.

743/Cal/89. Bernd Hansen. Method and apparatus for producing liquid filled receptacles.

744/Cal/89. Bernd Hansen. Process for filling and subsequent fusion welding of receptacles.

The 11th September, 1989

745/Cal/89. Rca Licensing Corporation. Color display system and tube having an electron gun with dual electrode modulation.

The 12th September, 1989

746/Cal/89. Eaton Corporation. Bi-Directional setting of a programmer/timer.

747/Cal/89. Emitec Gesellschaft Fur Emissionstechnologie Mbh. An assembled crankshaft.

748/Cal/89. Application Art Laboratories Co. Limited. Magnetic lock closure device.

749/Cal/89. Colortech Inc. Extruded products of resinous materials.

[Division of Application No. 510/Cal/1986 & dt. 9th July, 1986.]

750/Cal/89. Aeg Kabel Aktiengesellschaft. Lwl Cable.

The 13th September, 1989

751/Cal/89. Aeg Kabel Aktiengesellschaft. Lwl-Cable.

752/Cal/89. General Electric Company. Warm-up control for transmission hydrostatic unit.

753/Cal/89. General Electric Company. Apparatus for shear-cutting a slack of amorphous steel sheets.

APPLICATIONS FOR PATENTS FILED AT THE PATENTS OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-5

The 21st August, 1989

738/Del/89. Exxon Chemical Patents, Inc. "Method for preparing homopolymers of ethylene and copolymers of ethylene and alpha olefins or diolefins".

[Divisional date 8th December, 1986].

739/Del/89. Hansdieter Brauhn. "Fuel tank for aggressive liquids".

The 22nd August, 1989

740/Del/89. Motorola Inc. "Battery saver circuit for a frequency synthesizer".

741/Del/89. Hunter Douglas Industries B.V. "A louvre paneling system". (Convention date 1st September, 1988) (U.K.).

742/Del/89. Amoco Corporation. "Overbased alkali metal sulfonates".

743/Del/89. The B.F. Goodrich Co. "Flexible blend compositions based on overpolymers of vinyl chloride polymers on ethylene copolymers".

744/Del/89. UOP. "Catalyst regeneration with reduced thermal damage".

745/Del/89. Geoferry Raymond Richter & Other. "Collapsible container". (Convention date 23rd August, 1988) (Australia).

The 23rd August, 1989

746/Del/89. Satish Chander Sabharwal. "Starterless capacitive ballast for discharge lamps".

747/Del/89. Felix Augustine Ryan. "A stove which is operable on a combustible foilage".

748/Del/89. Exxon Chemical Patents, Inc. "Process for the purification of linear paraffins".

749/Del/89. Shell Internationale Research Maatschappij B.V. "Solid alkene polymerization catalyst components and process for their preparation". (Convention date 26th August, 1988) (U.K.).

750/Del/89. Lithium Corporation of America. "Mass treatment of cellulosic materials".

The 25th August, 1989

751/Del/89. Bukh Meditec A/S. "A method of treating conditions of teeth and their supporting tissue".

752/Del/89. Hunter Douglas Industries B.V. "A venetian blind assembly".

753/Del/89. UOP INC. "Shaped particles for catalytic conversion of hydrocarbons".

[Divisional date 18th September, 1986].

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 28th August, 1989

642/Mas/89. Nithya Santhanakrishnan. A fuel economy device for scooters.

643/Mas/89. General Motors Corporation. Assembly method for a spline-type connection. (Divisional to Patent Application No. 115/Mas/86).

644/Mas/89. Sepracor, Inc. Derivatives and precursors of captopril and its analogues.

The 29th August, 1989

645/Mas/89. Maschinenfabrik Rieter AG. A combing machine.

646/Mas/89. BIC Corporation. Selectively actuatable lighter.

647/Mas/89. Sepracor, Inc. Methods for preparing captopril and its analogues.

648/Mas/89. Kawasaki Jukogyo Kabushiki Kaisha. Damping device for tower-like structure.

649/Mas/89. Maschinenfabrik Rieter AG. Method and apparatus for automatically exchanging bobbins at a flyer.

650/Mas/89. Daiichi Pharmaceutical Co., Ltd. A spiro compound.

The 30th August, 1989

651/Mas/89. Enichem Anic S.p.A. Catalyst component and catalyst for the polymerization of ethylene and the copolymerization of ethylene with alpha-olefins.

The 31st August, 1989

652/Mas/89. T. C. Jayaprakash. "Device for preventing unauthorised use of electronic or electrical equipment" in the form of a key operated spin/Spin plug.

653/Mas/89. Eureka Forbes Limited. An attachment to a vacuum cleaner for wet cleaning.

654/Mas/89. Eureka Forbes Limited. An attachment to a vacuum cleaner for wet and dry cleaning.

655/Mas/89. E.I.D. Parry (India) Limited. Process for manufacture of Nitrogenous/Phosphatic compound fertilisers.

656/Mas/89. SAB NIFE Power Systems Ltd. An "Nife Autofil" A device for automatic topping up of batteries whenever the electrolyte level drops below the specified level.

657/Mas/89. Maheswara Rao. Method and apparatus for multiprocessor network to be applied in computer industry for parallel processing.

658/Mas/89. Takeda Chemical Industries, Ltd. Water-floatable, aggregative agricultural preparations.

659/Mas/89. Framstome. Apparatus for screwing at least one nut onto and off connection members.

#### PATENTS SEALED

149450	157448	158102	158672	161798	161799	162023
163560	163972	164051	164057	164082	164091	164093
164122	164123	164124	164125	164126	164127	164242
164302	164321	164323	164332	164334	164351	164353
164367	164375	164387	164388	164444	164448	164449
164477.						

CAL = 20

MAS = 10

BOM = 4

DEL = 2

#### NO PATENTS

160493	160522	160531	160548	160583	160587	160592
160597	160695	160772	160814	160824	160825	160831
160835	160843	160866	160872	160875	160880	160942
160952	160998	161653	161671	161672	161704	161731
161733	161736	161794	161825	161867	161875	161889
161932	161946	162096	162354	162548	162753	162754
162755	163258	163286	163438	163613.		

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that M/s. Godrej Soaps Limited, of Pirojnagar, Eastern Express Highway, Vikhroli, Bombay-400 079, Maharashtra, India, have made an application under Section 57 of the Patents Act, 1970 for the amendment of name of the applicant in the application/complete specification for Patent No. 158190 (93/Bom/1985) for "A PLANT GROWTH PROMOTING AQUEOUS COMPOSITION".

The application for amendments and the proposed amendment can be inspected free of charge at the Patent Office Branch, Todi Estate, 3rd Floor, Sunmill Compound, Lower Parel (West), Bombay-400 013, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file the notice of opposition on the prescribed form 30 alongwith full written statement notification at the Patent Office Branch, Bombay.

If the full written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice of opposition.

The amendment proposed by Enichem Polimeri S.P.A. in respect of application for Patent No. 161009 as advertised in Part III, Section 2 of the Gazette of India dated the 15th April, 1989 have been allowed.

#### RENEWAL FEES PAID

145049	147089	147098	147132	147766	148171	148509
148738	148769	148913	148937	148985	149058	149277
149290	149369	149477	149583	149621	150058	150059
150204	150251	150388	150700	151009	151158	151504
151505	151523	151548	151711	151862	152414	152419
152477	152531	152700	152722	152945	153085	153124
153125	153174	153209	153252	153259	153324	153325
153326	153438	154181	154221	154238	154285	154343
154401	154505	154518	154579	154710	155275	155280
155404	155483	155556	155938	156073	156243	156261
156389	156577	156579	156751	156767	156788	156823
156846	156960	157144	157145	157146	167157	157316
157534	157610	157842	157956	157969	157970	158153
158204	158262	158334	158343	158392	158490	158524
158553	158787	158972	159339	159379	159587	159747
159784	159827	159883	160001	160027	160030	160031
160267	160268	160615	160656	160745	160775	160864
160932	160977	161058	161208	161209	161252	161261
161335	161387	161476	161492	161546	161617	161701
161879	162034	162250	162252	162417	162418	162549
162746	163034	163035	163244	163245	163254	163256
163257	163389	163493	163494	163498	163500	163689
163704	163764	163891	164097	164133	164257	164304
164305	164310	164330	164337	164350.		

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of Patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

#### स्वीकृत सम्पूर्ण विविदेश

एसद्वारा यह सचना द्वारा जारी है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के हजारुक कांडा अधिक, इसके निर्गम की तिथि से 4 महीने या अधिक एसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रक्रम 14 पर आवेदित एक महीने की अवधि से अधिक न हो के भीतर कभी भी नियंत्रक, एकस्व को एसे विरोध अधिक न हो के भीतर कभी भी नियंत्रक, एकस्व को एसे विरोध

लिखित वक्तव्य; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए ।

“प्रत्येक विनिवेश के संदर्भ में नीचे दिए वर्णकरण, भारतीय वर्णकरण तथा अन्तर्राष्ट्रीय वर्णकरण के अनुरूप हैं ।”

नीचे सूची गत विनिवेशों की सीमित संख्यक में मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय हते हुयथा समय उपलब्ध होती हैं। प्रत्येक विनिवेश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त आक रुप्ति)। मुद्रित विनिवेश की आपूर्ति हते हुय मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिवेशों की संख्या संलग्न रहनी चाहिए ।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हो; के साथ विनिवेशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता, द्वारा विहित लिप्यात्तरण प्रभार [उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अवायगी पर की जा सकती है]। विनिवेश की पृष्ठ संरूप के साथ प्रत्येक स्वीकृत विनिवेश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यात्तरण प्रभार 4/- रु. है) फोटो लिप्यात्तरण प्रभार का परिष्करण किया जा सकता है ।

CLASS : 86-A

165411

Int. Cl. : A 47 b 43/00, 51/00; B 07 c 7/00.

## WORKPLACE FURNITURE.

Applicant : KNURR MECHANIK FÜR DIE ELEKTRONIK AG, SCHATZBOGEN 29, 8000 MÜNICHEN 82, WEST GERMANY.

Inventor : HANS KNURR.

Application No. 747/Cal/86 filed October 15, 1986.

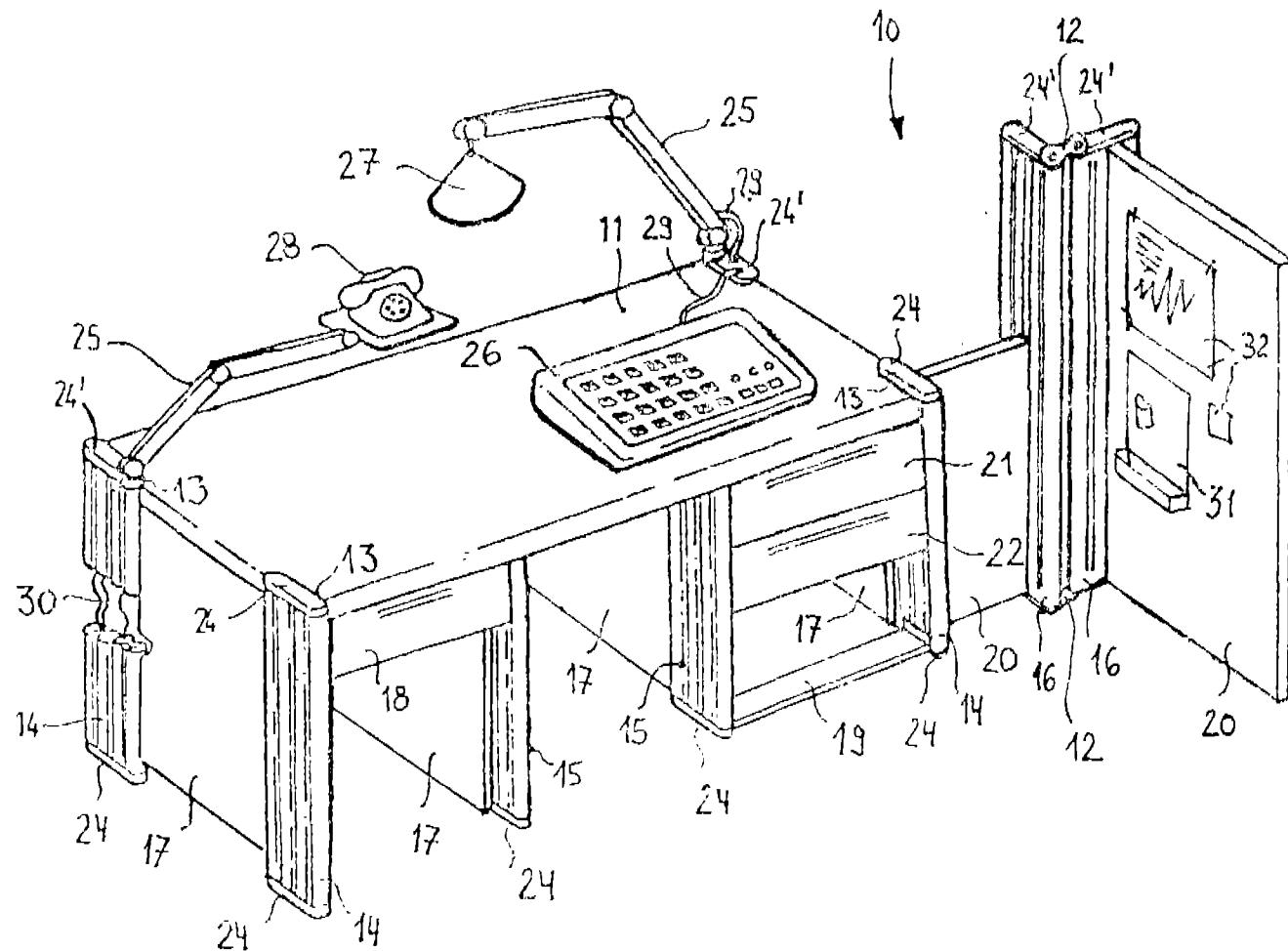
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

Workplace furniture with hollow sections serving as vertical supports and having a roughly rectangular cross-section and with workplace furniture components arranged on the supports, characterized in that the hollow sections (first, second, third and fourth) hollow sections (14, 15, 16, 51) are provided on their longitudinal sides with in each case T-slots (33), that they have two clip-like lugs (45, 46) between two T-slots (33) facing one another in the end region of the two longitudinal sides and which project into a space surrounded by rounded end faces (37), so that a roughly horseshoe-shaped cross-sectional configuration with a correspondingly almost circular space is formed by the connecting web (43) connecting the rounded portions and the clip lugs (45, 46).

Compl. specu. 17 pages

Drg. 3 sheets



CLASS : 206-D  
Int. Cl. : H 02 j 3/00.

165412

APPARATUS FOR IDENTIFYING EXTERNALLY INDUCED VOLTAGES IN A POWER TRANSMISSION LINE WITH HORIZONTAL ARRANGEMENT OF PHASE CONDUCTORS.

Applicant : GOSUDARSTVENNY NAUCHNO-ISSLEDOVATELSKY ENERGETICHESKY INSTITUT IMENI G. M. KRZHIZHANOVSKOGO, OF LENINSKY PROSPEKT, 19 MOSCOW, USSR.

Inventors : (1) IOSIF NIKOLAEVICH POPOV, (2) VJADIMIR FEDOROVICH LACHUGIN.

Application No. 759/Cal/86 filed October 17, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

An apparatus for identifying externally induced voltages in a power transmission line with horizontal arrangement of the phase conductors, comprising measurement converters of the phase currents and voltages, installed in the power transmission line, filters of emergency components of the phase currents and voltages, a first adder electrically connected with the measurement converters of the phase currents and voltages, a first full-wave rectifier with a ripple filter, having its input connected to the output of the first adder, two switches having their inputs connected through the filters of emergency components of the phase currents and voltages to the outputs of the measurement converters of the phase currents and voltages, the outputs of the first switch being connected with the inputs of the first adder, a second adder having its inputs connected with the outputs of the second switch, a second full-wave rectifier with a ripple filter, having its input connected with the output of the second adder, a first input connected with the output of the second adder, a first comparison circuit having its first input connected to the output of the first full-wave rectifier with its ripple filter and its second input to the output of the second full-wave rectifier with its ripple filter, an AND gate having its first input electrically connected with the output of the first comparison circuit, a threshold element having its input connected with the output of the first full-wave rectifier with its ripple filter and having its output connected with the second input of the AND gate, and actuating means having its input connected with the output of the AND gate.

Compl. specn. 30 pages

Drg. 1 sheet

CLASS :  
Int. Cl. : F 02 c 6/00.

165413

COMBINED GAS AND STEAM TURBINE PLANT.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, WEST GERMANY.

Inventors : (1) LOTHAR REH, (2) ROLF GRAF, (3) MARTIN HIRSCH, 4) LUDOLF PLASS.

Application 778/Cal/1986 filed October 23, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A combined gas turbine and steam turbine plant wherein in the gas turbine is supplied with a fuel gas which has been produced by gasification of solid carbonaceous material and has subsequently been desulfurized, the steam turbine is supplied with steam produced by heat generated by combustion of carbonaceous residue from said gasification, the carbonaceous residue being burnt with oxygen-containing exhaust gases from the gas turbine characterized in that the fuel gas is produced at a temperature from 900 to 1100°C in a circulating fluidized bed by a gasification of 70 to 95% by weight of the carbon contained in the carbonaceous material and is treated at a temperature from 850 to 950°C with suspended solids consisting of calcium hydroxide, calcium oxide and/or calcium carbonate-containing solids to remove pollutants, the main portion of said fuel gas is burnt to produce a gas which is used to operate the gas turbine and which contains at least 5% by volume oxygen and is at a temperature of at least 1000°C, and the combustion of said carbonaceous residue to produce steam is carried out in another circulating fluidized bed at a temperature from 800 to 950°C under near-stoichiometric conditions by a treatment with oxygen-containing gases, which are supplied on different levels in at least two partial streams and mainly consist of exhaust gas from the gas turbine.

Compl. specn. 29 pages

Drg. 1 sheet

CLASS :

165414

Int. Cl. : C 07 c 119/042.

A PROCESS FOR ISOLATING ISOCYANATES FROM A REACTION MIXTURE CONTAINING ISOCYANATES.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, U.S.A.

Inventors : (1) JOHN FREDERICK KOOK, (2) JOHN RICHARD KOSAK.

Application No. 798/Cal/86 filed November 03, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A process for isolating isocyanates from a reaction mixture containing isocyanates produced by vapor-phase catalytic oxidative dehydrogenation of corresponding N-substituted formamides, the process comprising :

- (a) contacting the reaction mixture, in the vapor phase, with a cold brine mixture at a temperature of from 100 to 700°C, thereby providing isocyanate-containing and aqueous phases, and
- (b) separating the isocyanate-containing phase from the aqueous phase by conventional method;

the process characterized by use of brine mixture comprising water and 25% to 35% by weight of a salt or salts selected from the group consisting of NaCl, CaCl<sub>2</sub>, and MgCl<sub>2</sub>, which brine mixture is maintained at a temperature between 0°C and its freezing point, prior to contact with the reaction mixture containing isocyanates.

Compl. specn. 12 pages

Drg. Nil

CLASS :

165416

Int. Cl. : G 09 F 11/00, 15/00, 19/00.

## MOVING ADVERTISING DEVICE.

Applicant & Inventor : MR. DILIP KUMAR CHATTERJEE AND MR. BHASWAR CHATTERJEE, OF 4, MAHARAJA NAND KUMAR ROAD, CALCUTTA-700029, INDIA.

CLASS : 69-I, K 165415

Int. Cl. : H 01 h 1/66, 33/74, 33/825.

## A GAS-BLAST ELECTRIC CIRCUIT BREAKER INCLUDING TWO SPACED APART CONTACT PIECES.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

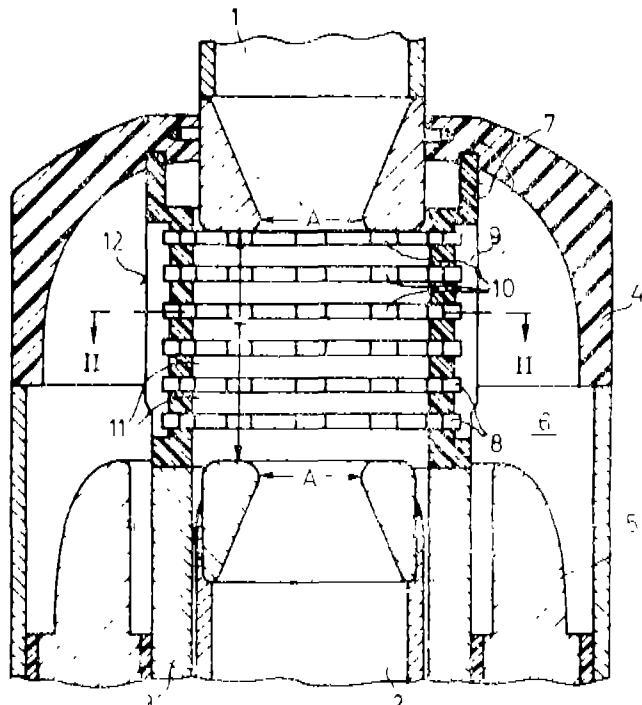
Inventor : HELMUT BEIER.

Application No. 813/Cal/1986 filed November 10, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A gas-blast electric circuit breaker comprising : two spaced apart contact pieces, which are electrically connected to one another by a bridging member when the circuit breaker is in the circuit-closed condition, and a tube of electrically insulating material surrounding, at least at times, the space between said contact pieces, the tube having first grooves in its inner face and second grooves in its outer face which cross the first grooves, holes through the tube wall being formed where the second grooves cross the first grooves for the admission of quenching gas into said space.



Compl. specn. 9 pages

Drg. 1 sheet

## 5 Claims

A moving advertising device comprising :

a vertical frame;

a central rod rotatably supported by bearings in the frame;

a plurality of flanges fixed to the shaft and spaced from each other;

a plurality of slides or panels hinged to the said flanges;

a driving wheel rotatably mounted on said central rod near its lower end;

an electric motor for rotating the driving wheel through pulleys and belts and a worm gear drivingly connecting the motor shaft, latch or lock means at the top and near the lower end of the frame normally engaging the upper and the lower outer corners of the front-most slide or panel;

a puller member on the driving wheel engageable with a T-shaped projection on the lower side of each panel or slide;

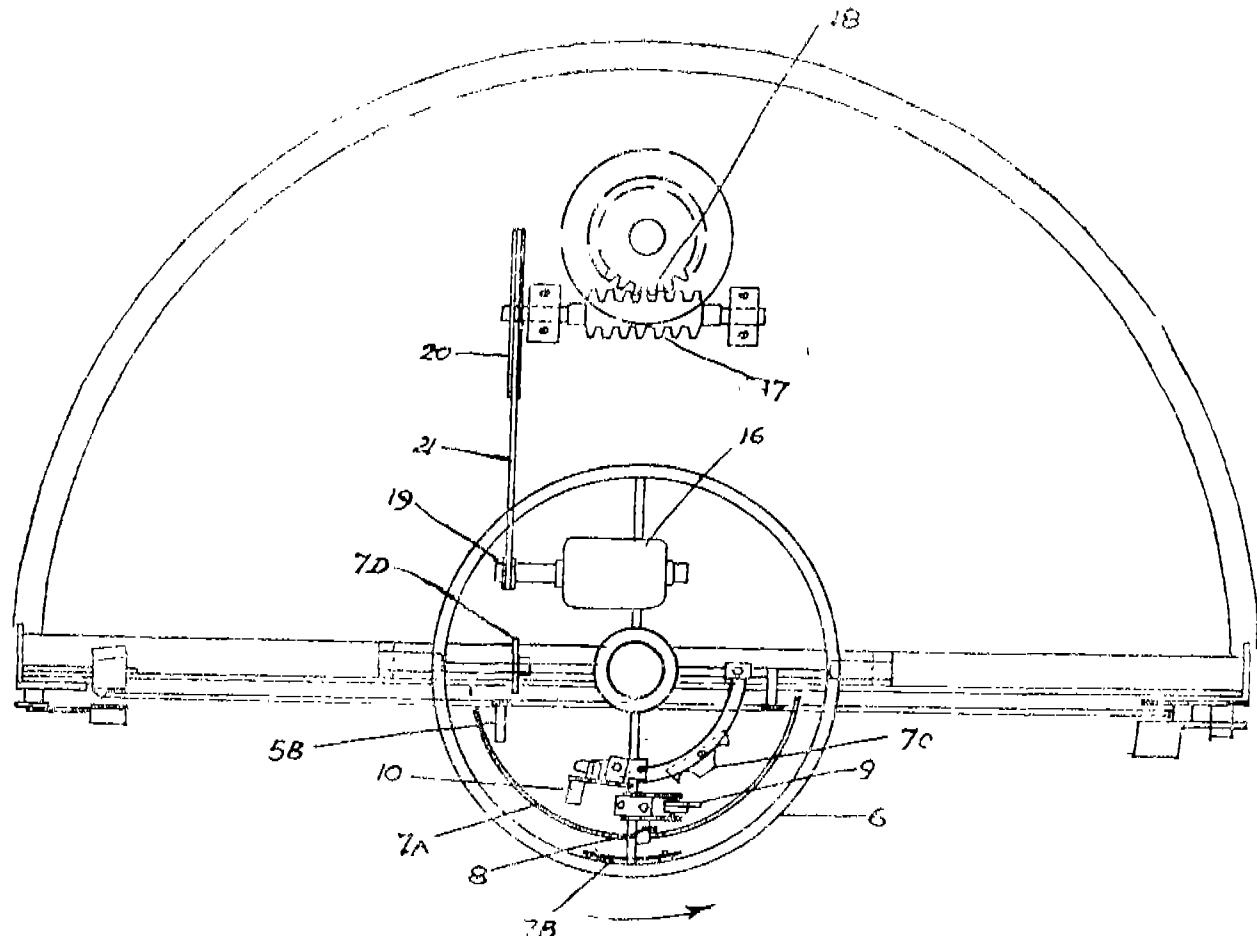
a lock driver or actuating member on the driving wheel for retracting the said locking or latch means to permit the movement of one panel at a time and a cam for operating the lock driver for releasing the locking or latching means;

a ratchet on the frame for holding the panel which is being moved to its stacked position by rotation about its hinges to the opposite side;

a further cam means for releasing the latching or locking means on the said sides for permitting movement of the panels and a still further cam for actuating a main puller member on the drive wheel to push a panel and move it from one stationary

position to another stationary position to another stationary position and yet another cam to actuate

another puller to push a panel to the front and keep it ready for movement to the opposite side.



Compl. specn. 11 pages

Drg. 3 sheets

CLASS : 85-J

165417

Int. Cl. : F 27 d 1/16.

**TUYERE FOR FLAME JET GUNITING OF A METALLURGICAL UNIT.**

Application : VSESOJUZNY GOSUDARSTVENNY INSTITUT NAUCHNO-ISSLEDOVATELOVATEL'SKIKH I PROEKTNKH RABOT OGNEU PORNOI PROMYSHLENOSTI, OF LENINGRAD, NABEREZHNAYA MAKAROVA, 2, USSR.

Inventors : (1) ALEXANDR ANDREEVICH KUGUSHIN, (2) MIKHAIL VASILEVICH MALAKHOV, (3) ANA-FOLY VASILEVICH LAKUNTSOV, (4) LEV MIKHAILOVICH UCHITEL, (5) RAFIK SABIROVICH AIZATULOV, (6) JURY ARKADIEVICH MARAKULIN, (7) IGOR PAVLOVICH TSIBNI, (8) ALEXANDR ALEXANDROVICH SHERSHNEV, (9) VYACHESLAV FEDOROVICH BADAKH, (10) IZRAIL ABRAMOVICH JUZEFOVSKY, (11) NINA PAVLOVNA CHERNOVA, (12) VIKTOR ALBERTOVICH BREIDO, (13) VITALY SEMENOVICH NOVIKOV, (14) IVAN VASILEVICH DROZDOV, (15) GEORGY ALEXEEVICH MAXIMOV, (16) GENNADY PETROVICH MATVEEV, (17) VLADIMIR FEDOROVICH KORZUN (18) BORIS INNOKENTIEVICH ASHPIN (19) JURY VIKTOROVICH LIPUKHIN, (20) VALERY FEDOROVICH CHIRIKHIN, (21) OLEG NIKOLAEVICH CHEMERIS.

Application No. 847/Cal/1986 filed November 21, 1986.

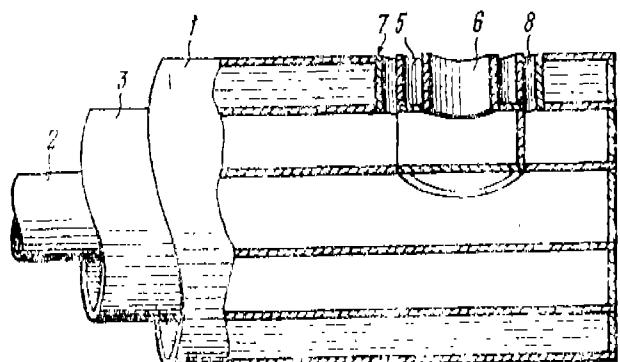
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A tuyere for flame jet guniting of a metallurgical unit as hereinbefore described comprising :

a water-cooled casing accommodating a conduit for supply of oxygen into the interior of a metallurgical unit;

the conduits carrying at the ends thereof at least one guniting nozzle having ducts for supply of gunite powder and oxygen, respectively, wherein the oxygen supply duct is arranged to extend along the axis of said guniting nozzle, and the gunite powder supply duct is disposed around the periphery of the oxygen supply duct.



Compl. specn. 19 pages

Drg. 4 sheets

CLASS : 85-J

165418

Int. Cl. : F 27 d 1/16.

## METHOD AND MULTIPLE-NOZZLE TUYERE FOR GUNITING A METALLURGICAL UNIT.

Applicant : VSESOUZNY GOSUDARSTVENNY INSTITUT NAUCHNO-ISSLEDOVATELSKIKH I PROEKT-NYKH RABOT OGNEUPORNOI PROMYSHLENNOSTI, OF LENINGRAD, NABEREZHNAYA MAKAROVA, 2, USSR.

Inventors : (1) OLEG NIKOLAEVICH CHEMERIS, (2) IZRAIL ABRAMOVICH JUZEOFVSKY, (3) ALEXANDR ALEXANDROVICH SHERSHNEV, (4) IGOR PAVLOVICH TSIBIN, (5) ALEXANDR ANDREEVICH KUGUSHIN, (6) MIKHAIL VASILIEVICH MALAKHOV, (7) JURY VIKTOROVICH LIPUKHIN, (8) JURY IVANOVICH ZHAVORONKOV, (9) VALERY NIKOLAEVICH DUDNIKOV, (10) ALEXANDR GRIGORIEVICH ZELTSER.

Application No. 848/Cal/86 filed November, 21, 1986.

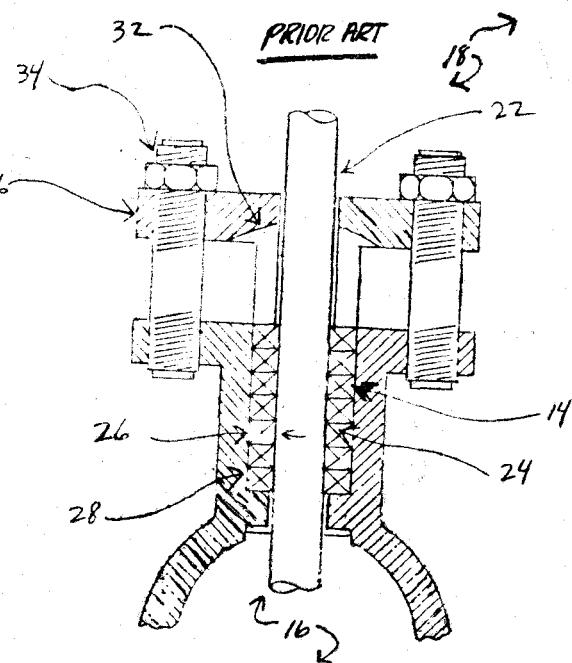
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A method for guniting a metallurgical unit as hereinbefore described having walls and a bottom which are lined with a refractory material, wherein an oxygen jet containing one part of oxygen for forming carbon oxide with a fuel is supplied to the bottom area and a second part of oxygen is supplied to the lining being repaired with refractory powder, pulverulent fuel being continuously supplied to the oxygen jet supplied to the bottom area.

Compl. specn. 20 pages

Drg. 2 sheets



Compl. specn. 16 pages

Drg. 2 sheets

CLASS : 165419

Int. Cl. : F 16 j 15/16.

## A STUFFING BOX HAVING A SELF ENERGIZED PRESSURE RESPONSIVE SEALING MEANS.

Applicant : ELECTRIC POWER RESEARCH INSTITUTE, INC., 3412 HILLVIEW AVENUE, PALO ALTO, CALIFORNIA 94303, U.S.A.

Inventors : (1) STEVEN KENNETH RUGGIERI, (2) ROBERT DONALD LEDUC, (3) JONATHAN SPENCEE KELLY, (4) CHARLES EDWARD GRABSKI.

Application No. 866/Cal/86 filed December 01, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A stuffing box having a self energized pressure responsive sealing means for sealing off a high pressure fluid area from a low pressure fluid area, comprising :

- A stuffing box body having an opening disposed between said high and low pressure areas;
- a shaft disposed within said opening between said high and low pressure areas; and
- a pressure responsive sealing means disposed between said shaft and said stuffing box body for providing an increasing sealing effect between said shaft and said stuffing box body as the pressure differential between said high and low pressure areas increases, while allowing for axial and rotary motion of said shaft.

2-287 GI/89

CLASS :

165420

Int. Cl. : C 04 b 43/00; E 02 b 3/00;

E 21 d 9/00, 11/00.

INSULATION SHEET TO PRODUCE IMPROVED HYDRO-INSULATED, GAS-INSULATED AND/OR CORROSION INSULATED CIVIL/MARINE AND OTHER STRUCTURES, AND METHOD OF PRODUCING SUCH IMPROVED STRUCTURES.

Applicant & Inventor : ADAM MULLICK, OF 5, VOTE BAGAN LANE, GHUSRY, HOWRAH, WEST BENGAL, INDIA.

Application No. 878/Cal/1986 filed December 03, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

An insulation sheet for use in civil/marine and other concrete structures and being adapted to be cast in situ with the said structures for producing improved hydro-insulated, gas-insulated and/or corrosion insulated structures characterised in that said sheet is made of thermoplastics or rubber (natural or artificial) to remain flexible such as to stretch to cover any normal crack(s), if and when developed in the concrete, and also in that anchoring knobs of same material as that of the sheet are integrally formed/provided on one or both of the surfaces of the sheet to protrude from



CLASS : 99-A, C &amp; 129-Q

165423

Int. Cl. : B 65 b 17/02; B 65 d 1/12;  
B 23 k 11/02.

PROCESS AND DEVICE FOR CONNECTING TOGETHER BY HEATED-TOOL BUTT-WELDING A CYLINDRICAL DRUM BODY OBTAINED BY EXTRUSION AND A VESSEL LID.

Applicant: KONINKLIJKE EMBALLAGE INDUSTRIE VAN LEER B.V., OF AMSTERDAMSEWEG 206, 1182 HL AMSTELVEEN, THE NETHERLANDS.

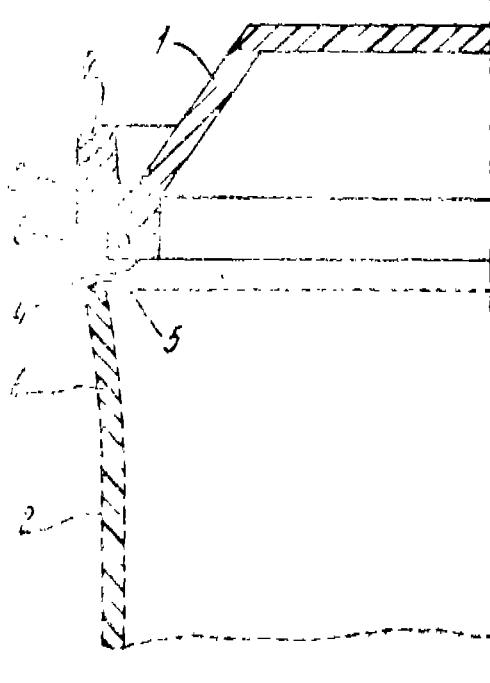
Inventors : (1) GERRIT JAN VAN KEIMPEMA, (2) BERNARD JOHAN DE LOOS, (3) EDWARD JAMES FARRINGTON.

Application No. 517/Cal/1986 filed July 11, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

Process for connecting together by heated-tool butt-welding a cylindrical drum body obtained by extrusion and a vessel lid which has a circular rim, *characterised in that the edge of the lid is deformed elastically by mechanical means to a dimension which corresponds to the dimension of the edge of the said cylindrical drum body, body and lid are welded together in this state and, after cooling of the weld, the deformation of the lid is removed.*



Compl. specn. 7 pages

Drg. 1 sheet

CLASS :

165424

Int. Cl. : F 17 c 13/00.

EQUIPMENT FOR REDUCING THE EVAPORATION LOSS OF STORING SPACES CONTAINING VOLATILE MATERIALS AND FOR THE RECOVERY OF VAPOURS FROM THE MIXTURE OF GAS AND VAPOURS.

Applicant : OLAJIPARI FOVALLALKOZO ES TER-VEZO VALLALAF, OF 1117-BUDAPEST, XI, SCBON-HERZ Z. U. 16, HUNGARY.

Inventors : (1) FERENC KOSTYAL, (2) GYORGY BELA MIKA, (3) MIKLOS PETRUSKA, (4) ISTVAN SOKORAI.

Application No. 560/Cal/1986 filed July 24, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

Equipment for reducing evaporation losses of storage tanks containing volatile materials, wherein the storage tanks are provided with holes for the inlet respectively outlet of the material to be stored, further on with breathing valves, characterized in that it has at least two storage tanks/40/and the gas-spaces of the storage tanks/40/are joined to communicate with each other and have a common discharging means/45/which is connected to a condenser.

Compl. specn. 25 pages

Drg. 3 sheets

CLASS : 165425

Int. Cl. : C 01 f 7/02.

AN IMPROVED PROCESS FOR RECOVERING PRECIPITATED ALUMINA TRIHYDRATE HAVING IMPROVED BRIGHTNESS.

Applicant : AMERICAN CYANAMID COMPANY, AT WAYNE, NEW JERSEY, U.S.A.

Inventor : ERIC KOESTER GARLAND.

Application No. 573/Cal/1986 filed July 29, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims

An improved process for recovering precipitated alumina trihydrate having improved brightness wherein from 0.01 to 40 pounds, per ton of dry mud residue, of an anionic flocculant such as herein described as added to the liquid stream containing red mud, the improvement which comprises contacting and efficiently mixing, in said circuit between the blow-off discharge, prior to feeding the primary settler and prior to anionic flocculant addition, from 1-150 pounds per ton of original dry mud residue content of a water soluble cationic polymer such as herein described which is stable under the recovery circuit processing conditions to thereby reduce the organics content of said stream; hot filtering the so-treated stream to separate the small amount of remaining red mud solids and any complexed organics; seeding the filtered stream with fine alumina hydrate crystals to precipitate alumina trihydrate; and recovering precipitated alumina trihydrate having improved brightness.

Compl. specn. 37 pages

Drg. 1 pages

CLASS :

165426

Int. Cl. : E 06 b 3/42.

CLASS :

165426

Int. Cl. : E 06 b 3/42.

BRACING DEVICE FOR SLIDE LOCKS.

Applicant : STOPING AKTIENGESELLSCHAFT, OF ZUGERSTR. 76A, CH-6340 BAAR, SWITZERLAND.

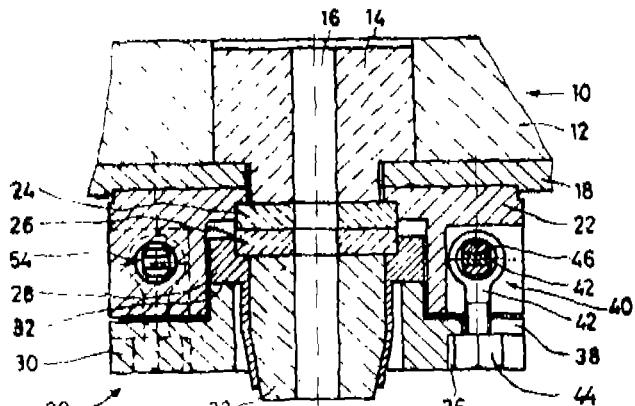
Inventors : (1) BEAT TROXLER, (2) KARL BRUNO RIETMANN.

Application No. 577/Cal/1986 filed July 30, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A bracing device for a slide lock provided at the spout of a container containing metallic smelt, with a chamber, a stationary base plate in it and a slide plate thickly placed at the base plate, the slide plate being seated in an adjustable way in a chamber cover and can be clamped spring loaded against the base plate by means of bracing elements hinged at the chamber and undercutting the chamber cover, wherein the knuckle axes of the brace elements (42, 44) are designed as torsion springs (46).



Compl. specn. 7 pages

Drg. 1 sheet

CLASS : 165427

Int. Cl. : F 16 c 32/00.

A BEARING STRUCTURE AND A METROLOGICAL APPARATUS HAVING SUCH BEARING STRUCTURE.

Applicant : RANK TAYLOR HOBSON LIMITED, OF 2 NEW STAR ROAD, LEICESTER LE4 7JQ, ENGLAND.

Inventor : ANTHONY BRUCE BARNABY.

Application No. 586/Cal/1986 filed August 01, 1986.

(Convention dated 2nd August, 1985 (No. 8519460) (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A bearing structure comprising :

a stationary member, and a rotatable member for supporting a workpiece support member for rotation about a vertical axis relative to said stationary member;

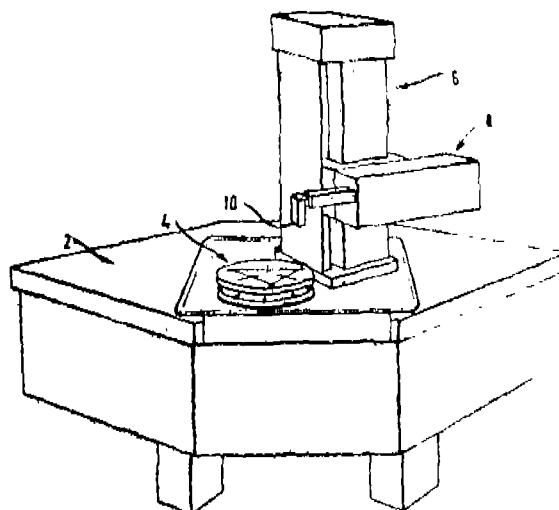
a first air bearing between said rotatable member and said stationary member and operable to constrain said rotatable member against downwards axial movement relative to said stationary member;

a second air bearing acting between said rotatable member and said stationary member and operable to constrain said rotatable member against upwards axial movement relative to said stationary member;

conduit means for supplying air to said air bearings for operation thereof; and

a third bearing acting between said rotatable member and said stationary member and constraining said rotatable member against radial movement relative

to said stationary member, wherein said third bearing is a dry low-friction bearing and said first air bearing has a higher stiffness than said second air bearing.



Compl. specn. 16 pages

Drg. 5 sheets

CLASS :

165428

Int. Cl. : C 22 b 34/22.

PROCESS FOR PRODUCING VANADIUM SLAG.

Applicant : (1) URALSKY NAUCHNO-ISSLEDOVATELSKY INSTITUT CHERNYKH METALLOV, OF SVERDLOVSK, PROSPEKT LENINA, 101, KORPUS 2, USSR; (2) NIZHNETAGILSKY METALLURGICHESKY KOMBINAT IMENI V. I. LENINA, OF NIZHNY TAGIL, USSR; (3) CHUSOVSKOI METALLURGICHESKY ZAVOD, OF CHUSOVOI PERMSKOI OBLASTI, ULITSA SVERDLOVA, 4, USSR.

Inventors : (1) LEONID ANDREEVICH CMIRNOV, (2) JURY STEPANOVICH SCHEKALEV, (3) ANATOLY ANATOLIEVICH FILIPPENKOV, (4) JURY ANDREEVICH DERYABIN, (5) OLEG NIKOLAEVICH KOKAREKO, (6) VIKTOR GRIGORIEVICH UDOVENKO, (7) GENNADY NIKOLAEVICH VASILENKO, (8) MIKHAIL ANDREEVICH TRETYAKOV, (9) BORIS DMITRIEVICH CHERVYAKOV, (10) SERGEI PETROVICH KISELEV, (11) VITALY GRIGORIEVICH KOROGODSKY, (12) VLADIMIR YAKOVLEVICH LITOVSKY, (13) VASILY TIKHNOVICH ARNAUTOV.

Application No. 618/Cal/1986 filed August 13, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for producing vanadium slag of the following chemical composition, in wt %:

vanadium oxide	16 to 30
silicon oxide	10 to 24
manganese oxide	6 to 14
chromium oxide	1 to 12
titanium oxide	6 to 14
calcium oxide	0.3 to 30.0
metallic iron	2 to 20
iron oxide	the balance

and of the following mineralogical composition, in wt %:

spinellide	40 to 70
glass	2 to 10
pyroxenes and olivines	the balance

wherein the siphonlides grains have a regular geometric shape and a size of 25 to 80  $\mu\text{m}$ , comprising casting into a converter vanadium iron of the following composition in wt. %:

vanadium	0.35 to 0.90
carbon	3.8 to 4.8
silicon	0.05 to 0.35
manganese	0.12 to 0.35
titanium	0.07 to 0.38
chromium	0.03 to 0.42
phosphorus	0.02 to 0.10
copper	0.04 to 0.32
nickel	0.04 to 0.32
Cobalt	0.001 to 0.12
iron	the balance,

adding fluxing components and cooling agents, blowing said iron with a gaseous oxidizing agent at a flow rate of 1.5 to 3.0  $\text{m}^3/\text{t}$ , min in terms of oxygen at a temperature of the metal at the beginning of the blowing within 1,180 to 1,200°C and at the end of the blowing, within 1,400 to 1,650°C with a specific area of the metal bath surface of 0.13 to 0.30  $\text{m}^2/\text{t}$  to produce an intermediate product or steel and vanadium slag.

Compl. specn. 33 pages

Drg. Nil

CLASS : 165429

Int. Cl. : C 10 L 5/40.

**A PROCESS AND PLANT FOR THE RECOVERY OF UTILISABLE GAS FROM GARBAGE BY MEANS OF PYROLYSIS.**

Applicant : PKA PYROLYSIS KRAFTANLAGEN GMBH, OF D-7080 AALEN, WEST GERMANY.

Inventor : BERND MICHAEL WOLF.

Application No. 621/Cal/86 filed August 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

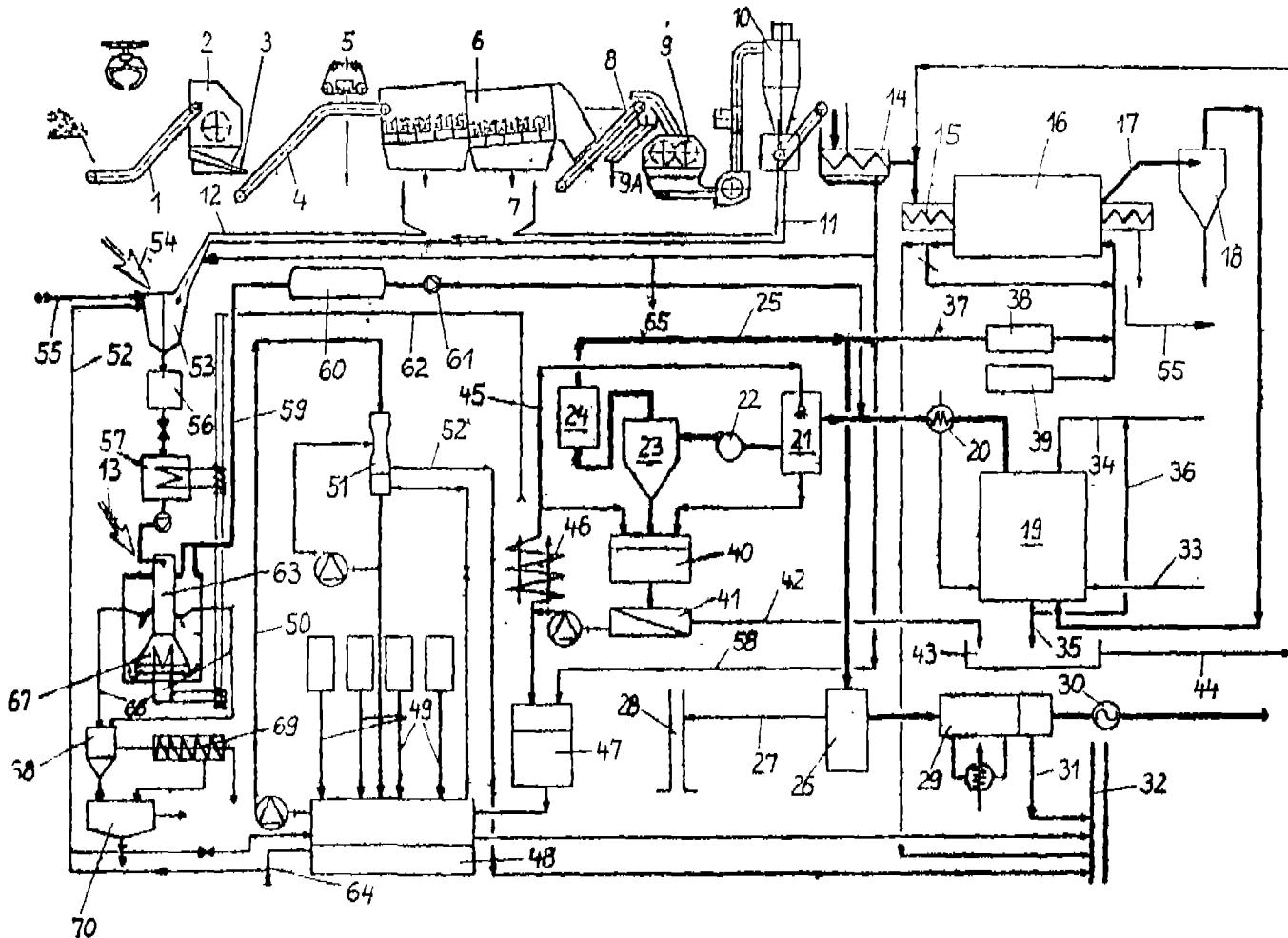
## 15 Claims

A method for the recovery of usable gas from garbage by pyrolysis characterised by the steps of:

- separating the garbage into a vegetable wet fraction and a light fraction;
- feeding said wet fraction to a biogas installation to form methane gas;
- pressing or granulating said light fraction into pellets or granules of size 1 to 50 mm that are dried;
- drying said pellets to a moisture range of a maximum of 25%;
- conveying said dried pellets to a heated pyrolysis reactor;
- partially burning said dried pellets to produce a gas and a residual ash;
- separating the residual ash and other residue from said gas; and
- passing said gas mixed with air over a glowing coal bed to produce fuel gas.

Compl. specn. 18 pages

Drg. 1 sheet



CLASS : 165430

Int. Cl. : C 09 b 81/00; 62/00.

## PROCESS FOR THE PREPARATION OF WATER-SOLUBLE DIAZO COMPOUNDS.

Applicant : HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

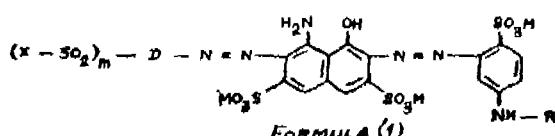
Inventor : LUDWIG SCHLAFER.

Application No. 725/Cal/1986 filed October 06, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A process for preparing a water-soluble diazo compound conforming to the formula (1) of the accompanying drawings



in which the meanings are :

D is a benzene ring or a naphthalene ring which can both be substituted by substituents from the group consisting of chlorine, bromine, alkyl of 1 to 4 carbon atoms, alkoxy of 1 to 4 carbon atoms, carboxyl and sulfo;

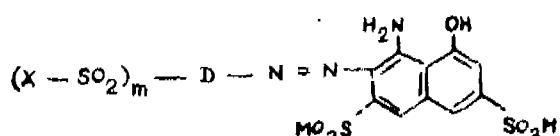
X is the vinyl group of a  $\beta$ -sulfatoethyl group;

R is a  $\beta$ -sulfatoethylsulfonyl, 3-( $\beta$ -chloroethylsulfonyl)-benzoyl, 4-( $\beta$ -chloroethylsulfonyl)-benzoyl, 3-( $\beta$ -chloroethylsulfonyl-methyl)-benzoyl, 4-( $\beta$ -chloroethylsulfonyl-methyl)-benzoyl, 4-( $\beta$ -chloroethylsulfonyl)-ciunamoyl, 3-(N-methyl-N- $\beta$ -chloroethylsulfonyl)-aminobenzoyl or 4-(N-methyl-N- $\beta$ -chloroethylsulfonyl)-aminobenzoyl group;

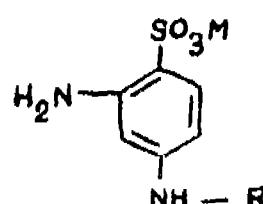
m is the number 1 or 2,

M is a hydrogen atom or an alkali metal,

which comprises coupling a monoazo compound of the the formula (4)



in which D, M, X and m have the abovementioned meanings, with the diazonium compound of an aromatic amine of the formula (5)



in which M and R have the meanings mentioned above at a pH-value between 3 and 8 and at a temperature between 5 and 30°C.

Compl. specn. 30 pages

Drg. 2 sheets

Int. CLASS : G 03 C—1/04; 1/50; 1/90 165431

## A PROCESS FOR THE MANUFACTURE OF SUBMICRON GATE GAS MESFETS USING CONTACT PHOTOLITHOGRAPHY.

Applicant : COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH, RAH MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : BABU RAM SINGH, OR PRAKASH DABA and WAMAN SADASHIV KHOKLE.

Application for Patent No. 400/Del/85 filed on 15th May, 1985.

Complete specification left on 12th August, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 10 Claims

An improved process for the manufacture of Submicron gate GaAs mesfets on epitaxial wafers which comprises :

coating the surface of a Ga-Arsenide wafer with a photosensitive polymer material such as herein-described;

exposing the coating surface to ultra violet light through a mask containing opaque and transparent areas;

etching the wafer with an acid solution or an alkaline solution containing an oxidising agent such as herein-described;

forming a film of aluminium on the etched surface of the wafer;

coating a photosensitive material such as herein-described and exposing the coated surface to ultraviolet light through a mask containing opaque and transparent areas etching of aluminium to submicron level;

coating by vacum deposition a layer of gold and germanium in the space between the hangover of the photo resist and heating to a temperature in the range of 350° to 480°C, etching of aluminium photolithographically;

depositing  $\text{SiO}_2$  over the wafer for passivation, removing the layer of silicon dioxide from selected areas photolithographically;

coating the surface with a layer of titanium followed with a layer of platinum and then with a layer of gold to facilitate wire bonding and reliability;

Ga-As Mesfet's final extensive application is low noise & high power microwave amplificative mixers, oscillation & monolithic microwave integrated circuits.

Provisional specn. 5 pages

Compl. specn. 9 pages

Drg. 1 sheet

Int. CLASS<sup>4</sup>: C 08 K 3/02

165432

**A PROCESS FOR THE PRODUCTION OF A COATED PARTICULATE FILLER.**

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY, OF IMPERIAL CHEMICAL HOUSE, MILBANK, LONDON SW1P 3 JF, ENGLAND.

Inventors: JOHN GERARD CAREY, ROBER NORMAN ROTHON AND MARTIN BOTTRILL.

Application for Patent No. 658/Del/85 filed on 9th August, 1985.

Convention date 22nd August, 1984/84 21288/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**24 Claims**

A process for the production of a coated particulate filler capable of reacting with an organic polymeric material such as herein described which process comprises reacting a particulate filler such as herein described with an acidic group-containing organic polymer such as herein described in which the organic polymer also comprises a nitrogen-containing group capable of reacting with said organic polymeric material.

The product of the invention is useful as a filler for compositions of organic polymeric material.

Compl. specn. 31

Drg. sheet 1

Int. CLASS<sup>4</sup>: C 01 G 45/02

165433

**A PROCESS FOR PRODUCTION OF ELECTROLYTIC MANGANESE DIOXIDE ALONG WITH ACTIVATED MANGANESE DIOXIDE AS A BY PRODUCT FROM NATURAL MANGANESE ORES.**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAHI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors: NAYER DHANANJAYAN, PRASANTA LAL SEN GUPTA, SUNIL CHANDRA AUSH AND PANCH KARI SINHA.

Application for Patent No. 915/Del/85 filed on 31st October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**5 Claims**

A process for the production of electrolytic manganese dioxide along with activated manganese dioxide as a by product from natural manganese ores which comprises:

crushing & grinding the manganese ore, calcining the ground ore at a temperature of 700—850°C in an oxidising atmosphere;

leaching the calcined manganese ore at a temperature in the range of 70—100°C using spent electrolyte containing sulphuric acid and manganous sulphate;

filtering, washing the precipitate with water and drying the precipitate to obtain activated manganese dioxide as a byproduct;

electrolysing the filtrate obtained after leaching and filtering to obtain electrolytic manganese dioxide, the spent electrolyte containing sulphuric acid and manganous sulphate produced during electrolysis being utilized during the said leaching step.

Compl. specn. 11 pages

Drg. 2 sheets

Int. CLASS<sup>4</sup>: C 08F 210/02

165434

**METHOD FOR PREPARING IMPROVED VINYL DISPERSION RESINS.**

Applicant: THE B.F. GOODRICH COMPANY, A NEW YORK CORPORATION, OF 500 SOUTH MAIN STREET, AKRON, OHIO 44318, U.S.A.

Inventor : JONG SHUN KIM.

Application for Patent No. 1048/Del/85 filed on 11th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**7 Claims**

A method for preparing improved vinyl dispersion resins containing a major proportion of vinyl chloride and having thixotropic properties which comprises:

isolating in any known manner said resins from a latex composed of vinyl dispersion resins and a cross-linked, water-swellable polymer of an unsaturated carboxylic acid;

said carboxylic acid polymer being present in said latex in an amount of from 0.001 to 1 weight part per hundred weight parts of total polymer solids in the latex and drying the isolated vinyl chloride resins;

The product of the invention are normally dispersed in plasticizers to form plastisols, or in volatile organic dispersants or thinners to form organosols.

Compl. specn. 35 pages

Drg. 1 sheet

Int. CLASS<sup>4</sup>: B 60 T 8/00, 15/00, 17/00,  
F 16 D, 65/00.

165435

**BRAKE SPIDER FOR MOUNTING ON A VEHICLE AXLE.**

Applicant : ROCKWELL INTERNATIONAL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 600 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15219, UNITED STATES OF AMERICA.

Inventors : CARY E. CREWSON and DAVID J. PULLIAM.

Application for Patent No. 1057/Del/85 filed on 12th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**4 Claims**

A brake spider for mounting on a vehicle axle (12) and supporting a pair of brake shoes (14) and an actuator (19) :

said brake spider having a mounting portion (44) with first and second support portions (46, 48) offset in opposite directions from plane of said mounting portion and on either side of said mounting portion;

a pair of laterally spaced bores (49, 50) through said second support portion (48) and mounting a pair of anchor pins (15); and

spacing means comprising a plurality of bosses (57, 77) projecting from oppositely disposed surfaces of said second support portion (48) of said spider with at least one side boss on each said surface of said second support portion and adjacent to and spaced from each of said bores.

Compl. specn. 16 pages

Drg. 3 sheets

Int. CLASS<sup>1</sup>: C 04 B 35/18

165436

**A PROCESS FOR THE MANUFACTURE OF INSULATING BRICK FROM RICE-HUSK ASH.**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ASIS KUMAR ROY and ARBINDA DE.

Application for Patent No. 01/Del/86 filed on 1st January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A process for the manufacture of insulating brick having specific characteristics of :

- (a) low thermal conductivity values upto the temperature of 1150°C;
- (b) low bulk density (around 0.70-0.84 gm/cm<sup>3</sup>);
- (c) high volume stability upto 1150°C; and
- (d) low porosity—66.2-73.0%, useful for insulation of industrial furnaces from rice husk ash which comprises, adding a solution of sodium silicate and sodium silico fluoride to a blend of rice husk ash and plastic fire clay, to obtain a semi dry mix pure, pressing the mixture to a desired shape, drying the shaped product and finally curing the product at a temperature in the range of 200-600°C.

Compl. specn. 13 pages.

Int. CLASS<sup>1</sup>: G 01 D 13/10

165437

**A MICROVERNIER CALLIPER.**

Applicant & Inventor : SHIV NARAIN KALA OF VAISH POLYTECHNIC INSTITUTE ROHTAK-124 001, HARYANA, INDIA, AN INDIAN NATIONAL.

Application for Patent No. 197/Del/86 filed on 5th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A microvernier calliper comprising :

a fixed jaw and moving jaw adapted to hold an object in between them for its measurement;

said fixed jaw being a L-shaped member having a smaller leg portion and larger leg portion, the whole length of the larger leg portion on the front face being fitted with a brass plate marked with graduations;

the said moving jaw being slideable on the said larger leg portion of the fixed jaw;

the said moving jaw having a sliding member slidingly fitted on the said larger leg of the fixed jaw and a jaw portion located opposite the said smaller leg portion of the fixed jaw such that the object to be measured is held in between the said two jaw;

a hole threaded from the inside as well the outside provided on the said jaw portion of the moving jaw;

a threaded spindle passing through the said threaded hole and ring fixed on said spindle;

a barrel also fitted on the said jaw portion of the moving jaw;

said barrel being graduated and having a datum line; a thimble also having a datum line and graduations marked on it, located on the said spindle, ratchet attached on the said thimble with the help of a screw.

Compl. specn. 13 pages

Drg. 1 sheet

Int. CLASS<sup>1</sup>: B 21 B 1/00

165438

**APPARATUS FOR TREATING A PRODUCT, SUCH AS ROD OR BAR FOR CONTROLLING THE GAUGE THEREOF.**

Applicant : MORGAN CONSTRUCTION COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF MASSACHUSETTS, U.S.A., OF 15 BELMONT STREET, WORCESTER MASSACHUSETTS 01605, UNITED STATES OF AMERICA.

Inventor : TERENCE MICHAEL SHORE.

Application for Patent No. 253/Del/86 filed on 19th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

Apparatus for treating a product, such as rod or bar for controlling the gauge thereof as the product is passing from an upstream stand to a finishing block, said apparatus comprising :

first and second sizing stands successively located between said upstream stand and said finishing block;

means for introducing variable loops in the product between said upstream stand and said first sizing stand and between said second sizing stand and said finishing block;

gauge means for taking cross sectional dimensional measurements of the product emerging from said second sizing stand and for generating signals representative of such measurements; and

control means connected to said gauge means for controlling the operational speeds of said sizing stands to maintain the product passing therebetween in tension, and to vary the level of said tension in response to signals from said gauge means which are indicative of off-gauge conditions in the product emerging from said second sizing stand.

Compl. specn. 11 pages

Drg. 1 sheet

Int. CLASS<sup>1</sup>: C 02 F 7/00

165439

**AN IMPROVED DEVICE FOR AERATION OF LIQUIDS.**

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : DR. SANTOSH NARAIN KAUL and HARI DAS JAGAN NATH PATIL.

Application for Patent No. 351/Del/86 filed on 21st April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

An improved device for aeration of liquids in a tank comprising :

a prime mover (1) to which a reduction gear (2) having an output shaft (6) is attached;

a circular disc (8) fixed to the output shaft through a hub (5) and carrying number of blades (9) fixed tangentially to the surface of the disc at an angle of at least  $10^{\circ}$  to the radial lines of the disc in such a way that the outer ends of the blades do not project outside on the periphery of the disc;

the direction of rotation of the circular disc being in the direction of the angle which the blades make towards the radial line of the disc;

the device being mounted on a platform (3) supported by pillars in the centre of the tank (4) to be aerated.

Compl. specn. 8 pages

Drg. 2 sheets

Int. CLASS<sup>1</sup> : A 23 C 13/14, 15/12 & 19/00 165440

## MECHANIZED CONICAL PROCESS VAT.

Applicant : INDIAN COUNCIL OF AGRICULTURAL RESEARCH, KRISHI BHAWAN, NEW DELHI-110 001, INDIA.

Inventors : SATYA PRAKASH AGRAWALA, ISH KUMAR SAWHNEY and BIKRAM KUMAR.

Application for Patent No. 754/Del/87 filed on 26th August, 1987.

Complete specification left on 23rd November, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 6 Claims

A mechanized conical process vat for conversion of milk into khoa and butter/cream into ghee, comprising :

a jacketed conical vessel having a straight line profiled metallic surface suitable for scraping the material deposited thereon;

the vessel provided with a rotary scraping cum mixing means connected to a shaft driven rotating means a product discharge means provided at the lower end of the vessel and means provided at the bottom of the vessel for recirculating the flowable content to the upper end of the vessel through an inlet distributor;

the jacketed portion of the vessel being functioning as a heat exchanger.

Compl. specn. 12 pages

Drg. 7 sheets

Provisional specn. 3 pages.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 160791. HOPE (INDIA), of 14 Ekambareswarar Agraaram, 1st Floor, Madras 600003, Tamil Nadu, India, a Partnership firm. "a Bowl". 8th March, 1989.

Class 1. No. 160967. WAJIDSONS EXPORTS, an Indian Partnership firm of Prince Road, Wajid Nagar, P.O. Box No. 79, Moradabad-244001, Uttar Pradesh, India. "Containers". 4th May, 1989.

Class 3. Nos. 160749 to 160751. SANGAM BRUSH & PLASTIC WORKS, Sita Kunj, Flat No. 6, 2nd floor, Near National Hospital, Bhandar Galli, Mahim, Bombay-16, State of Maharashtra, India. "Feeding Bottle". 22nd February, 1989.

Class 3. No. 160927. RAMAWATAR SARAOGI, Indian National, of Maker Chamber V, 1412 Nariman Point Bombay-400 021, State of Maharashtra, India. "Feeding Bottle". 28th April, 1989.

Class 3. No. 161028. SAJAVAT, 210, Golf Links, New Delhi-110003, India. "Fountain Cum Lamp Shade". 31st May, 1989.

Class 4. Nos. 160782 & 160783. THE BOMBAY OIL INDUSTRIES LIMITED, (an Indian Company) at Kanmoor House, 281-87 Narsi Natha Street, Bombay 400 009, State of Maharashtra, India. "Bottle". 6th March, 1989.

Class 4. No. 160785. AMITY PERFUMES PRIVATE LIMITED, (an Indian Company) at 157-59 Narayan Dhuru Street, Bombay 400 003, State of Maharashtra, India. "Bottle". 6th March, 1989.

Class 5. No. 161099. Munch Food Products (P) Ltd., D-992, New Friends Colony, New Delhi-110065, India, a company incorporated under the Indian Companies Act. "Box". 20th June, 1989.

Class 12. No. 161274. BRITANNIA INDUSTRIES LIMITED of 5/1A Hungerford Street, Calcutta 700017, West Bengal, India, an Indian Company. "BISCUIT". 8th August, 1989.

## Copyright Extended for the Second Period of five years

Nos. 160500, 160499, 154889, ..... Class 1.

Nos. 156001, 160452, ..... Class 3.

## Copyright Extended for the Third Period of five years

Nos. 160500, 160499, ..... Class 1.

Nos. 156001, 160452, ..... Class 3.

R. A. ACHARYA,  
Controller General of Patents,  
Designs and Trade Marks

